

Driving the Dixie Pinewood Derby Rules Pure Stock Under 12 Division

All cars must pass inspection to qualify for the race division.

BODY: Car must be built by entrant with help of adult (no Ebay cars).

R1. Body Specs:

- A. Width - Not to exceed 2 3/4 inches (7cm)
- B. Length - Not over 7 3/8 inches (17.8 cm)
- C. Weight - Not over 5 ounces on scale accurate to 1/10 ounce (141.75 grams).
- D. Height- Not to exceed 4 inches.
- E. Center Rail Width Clearance – At least 1 3/4 inches (4.5 cm) minimum along entire center length of car.
- F. Bottom Clearance - at least 3/8 inches (.95cm) from track. Fender flairs with less clearance are acceptable as long as the center rail width clearance is the same in rule R1E.
- G. Wheelbase – No More than 4 1/2 inches from center of front axle slot to center of rear axle slot (11.43cm). Cannot extend wheelbase.

R2. Body design may be enhanced by adding other stable materials such as plastic or metal. All additions must be firmly attached and conform to the size specifications. No part of the car body may protrude in front of the starting peg.

R3. The following items are PROHIBITED:

- A. Springs
- B. Starting devices or propellants
- C. Electronic or lighting devices
- D. Liquids, wet paint, oil, sticky substance, or powders of any kind (other than axle lubrication)
- E. Glass or excessively fragile parts
- F. Wheel bearings
- G. Loose objects on car
- H. Magnets (Mercury!) yes someone tried this one time – very dangerous and doesn't work!

WHEELS:

R4. BSA wide wheels are required for the stock-racing category. Outer wheel surface may be lightly sanded, shaved, or polished to remove surface imperfections and mold casting burrs, but must not be reshaped in any way in an attempt to lighten the wheel, minimize tread contact or alter aerodynamics. The fluting and other BSA markings on the outside wheel area must remain visible. Wheel hub may be coned and polished.

R5. The following wheel modifications are PROHIBITED:

- A. Rounding of wheel edges
- B. Grooving, H-cutting or V-cutting
- C. Altering of wheel profile
- D. Narrowing the tread surface
- E. Drilling sidewalls
- F. Hollowing, sanding, removing or modifying plastic material from inside the wheel
- G. Filling of wheel surface with any type of material

R6. There must be at least four wheels on the car, however, it is not required that all four wheels make contact with the track surface. The wheels must be attached directly to axle and spin freely.

AXLES:

R7. Axles must be used from the BSA Pinewood Derby Kit and can be de-burred, sanded and beveled for performance. Axles must not be connected to any device that mechanically alters rotation and spin.

R8. Only dry graphite may be used for lubricant. Do not get carried away with graphite so track will stay relatively clean.